(1) <u>Claim 61</u>

Claim 61 is an independent claim and is supported, e.g., as shown by the following Table A:

TABLE A

Claim 61	Present Application
[(a)] In an optical scanner	[(a)] A scanning optical
having	apparatus is disclosed. See,
	e.g., p. 1, lines 5-6; p. 7,
	line 24; p. 8, line 14; p. 9,
	line 7; p. 11, line 15; p. 19,
garage and the second of the s	lines 11-12; p. 23, line 23.
[(b)] a source of a light	[(b)] The scanning optical
beam,	apparatus includes a light
	source means 1 (see, e.g., Fig.
	4A; p. 24, lines 4-6) or 11
	(e.g., Figs. 12A, 16A, 20A; p.
	35, lines 9-11).
[(c)] a deflector for	[(c)] The scanning optical
deflecting said light beam	apparatus also includes a light
and	deflector 5 (see, e.g., Figs.
	4A and 12A; p. 24, lines 18-25;
	Fig. 16A; p. 41, lines 10-11)
	or polygon mirror 15 (e.g.,
	Fig. 20A; p. 46, line 23).

Claim 61	Present Application
[(d)] an imaging lens that	[(d)] The scanning optical
focuses the deflected light	apparatus further includes an
beam to form a beam spot on	fθ lens 6 (Fig. 4A), 36 (Fig.
a surface to be scanned,	12A), 46 (Fig. 16A), or 56
	(Fig. 20A) that causes the beam
	of light deflected by the light
	deflector to be imaged on a
	surface. See, e.g., p. 24,
	line 26 through p. 25, line 5
	(Fig. 4A); p. 35, line 24 (Fig.
and the second s	12A); p. 41, line 19 (Fig.
	16A); p. 46, line 20 (Fig.
	20A).

Claim 61	Present Application
[(e)] the improvement	[(e)] Both lens surfaces of the
wherein the curvatures in a	fθ lens (6, 36, 46, 56) have
sub-scanning direction of	curvatures in the sub-scanning
at least two of the	direction that vary
surfaces of said imaging	continuously from the on-axis
lens vary continuously	toward the off-axis in the
along a main scanning	effective portion of the lens.
direction over the	See, e.g., p. 25, lines 5-12
effective area of said	(Fig. 5); p. 37, lines 14-17,
imaging lens and	and p. 39, lines 5-7 (Fig. 13);
and the second of the second o	p. 39, line 27 through p. 40,
	line 5, and p. 41, lines 23-25
	(Fig. 18); p. 49, lines 3-7 and
	21-25 (Fig. 22).

Claim 61	Present Application
[(f)] independently of the	[(f)] The lens shape in the
curvatures in the main	sub-scanning plane is
scanning direction, and	independent of the lens shape
	in the main scanning plane.
	See, e.g., p. 8, lines 9 to 10
	and 27. See also, e.g.,
	equations (c) & (d) and Table
	1, p. 26, line 25 through p.
	28; equation (e) and Table 3,
	p. 36 through p. 37, line 13;
to the second of the second se	equation (f) and Tables 4 and
	5, p. 41, line 25 through p.
	42, line 8, and pp. 44, 48;
	Table 2, Page 32; and Table 6,
	Page 53.
[(g)] wherein the	[(g)] See (f) above.
curvatures in the main and	
sub-scanning directions are	
non-symmetrical with	·
respect to the optical	
axis.	

(2) <u>Claim 62</u>

Claim 62 depends from Claim 61 and further recites that the optical magnification of said imaging lens in the sub-scanning direction is constant over the effective

scanning region. For support, see, e.g., p. 19, lines 17-18; p. 23, lines 9-11; and p. 38, lines 18-22 ("the lateral magnification in the sub-scanning direction... can be uniformized....").

(3) <u>Claim 63</u>

Claim 63 depends from Claims 61 and 62 and further recites that the imaging lens is a single lens. For support, see, e.g., lenses 6 (Fig. 4A), 26 (Fig. 8A), 36 (Fig. 12A), 46 (Fig. 16A), and 56 (Fig. 20A); see also p. 46, line 6 (see, e.g., Embodiments 1-5).

(4) Claim 64

Claim 64 depends from Claim 63 and further recites that the entrance face of the imaging lens has a cross section taken in the sub-scanning direction which is concave at the center of scanning and convex at either end of scanning. For support, see, e.g., Fig. 13 (and Figs. 12B(1)-(2); p. 37, lines 17-21); Fig. 18 (and Figs. 16B(1)-(2)); and Fig. 22 (and Figs. 20B(1)-(2)) (see, e.g., Embodiments 3-5).

(5) <u>Claim 65</u>

Claim 65 depends from Claim 64 and further recites that the imaging lens has a surface that is aspheric in the main scanning direction, which is supported at, e.g., p. 26, line 20, and p. 41, lines 20 to 21 ("an aspherical surface shape") (see, e.g., Embodiments 3-5).

(6) Claim 66

Claim 66 depends from Claim 65 and further recites that the imaging lens has a surface having a point of inflection in the main scanning direction, as shown by, e.g., Figs. 12A, 14, 16A, and 20A (see, e.g., Embodiments 3-5).

(7) Claim 67

Claim 67 depends from Claim 65 and further recites that the light source has a plurality of light-emitting portions. For support, the present application discloses, e.g., a multibeam optical system with light source means 11 having a plurality of light source units (e.g., p. 35, lines 7-10; p. 49, line 11; p. 50, line 10) (see, e.g., Embodiments 3-5).

(8) Claim 68

Claim 68 depends from Claim 67 and recites the use of resin (to make the element of the imaging lens which has such a surface that the curvature in the sub-scanning direction varies continuously along the main scanning direction over the effective area of said imaging lens). The present application discloses the use of plastic (see, e.g., p. 11, lines 11-12; p. 25, line 23; p. 40, line 24).

(9) Claims 69 through 72

Claim 69 depends from Claim 61 and like Claim 65 recites that the imaging lens has a surface that is aspheric in the main scanning direction.

Claim 70 depends from Claim 69 and like Claim 66 recites that the imaging lens has a surface having a point of inflection in the main scanning direction.

Claim 71 depends from Claim 61 and like Claim 67 recites that the light source has a plurality of light-emitting portions.

Claim 72 depends from Claim 71 and like Claim 68 recites the use of resin.

Applicant respectfully submits that such features are supported for the reasons set forth above with respect to Claims 65 through 68.

It is submitted that the foregoing indication of support is fully responsive to the requirement set forth in the Official Action. Favorable consideration of this response is respectfully requested.

REQUEST FOR INTERVIEW AND CONCLUSION

As was also discussed during the telephonic conversation, Applicant respectfully requests a personal interview with the Examiner to discuss the proposed interference. Accordingly, Applicant's undersigned representative will contact the Examiner shortly to arrange a time convenient to the Examiner.

Applicant's undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 530-1010. All correspondence should continue to be directed to our below-listed address.

Respectfully submitted,

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